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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511,070	10/12/2004	Steven Victor Jones	8765		
7590 10/23/2006			EXAM	EXAMINER	
The Black & Decker Corporation Mail Stop TW199			MITCHELL, KATHERINE W		
Towson, MD 21286			ART UNIT	PAPER NUMBER	
			3677		
		•	DATE MAILED: 10/23/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/511,070	JONES, STEVEN VICTOR				
Office Action Summary	Examiner	Art Unit				
	Katherine W. Mitchell	3677				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>13 Sec</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for alloware closed in accordance with the practice under <i>E</i>	action is non-final. ace except for formal matters, pro					
· ·	x purio quayio, 1000 o.b. 11, 40					
Disposition of Claims						
4) ⊠ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-10 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 13 September 2006 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the order of the correction of the correction of the correction of the order of the correction of the cor	re: a)⊠ accepted or b)⊡ objecdrawing(s) be held in abeyance. See on is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/13/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Drawings

1. The amended drawings are approved and entered.

: Information Disclosure Statement

2. The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)). and MPEP § 609.04(a), subsection I. states, "the list ... must be submitted on a separate paper." Therefore, some references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609.05(a).

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The information disclosure has been placed in the application file, but the information referred to therein has not been considered, except the references supplied and that examiner was able to obtain.

The 371 Acceptance letter lists only the search report, and not copies of the foreign patents, as received with the national stage application. Copies of foreign references were not received. Examiner was unable to locate some of the foreign patents, but did locate Smith GB2332722.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

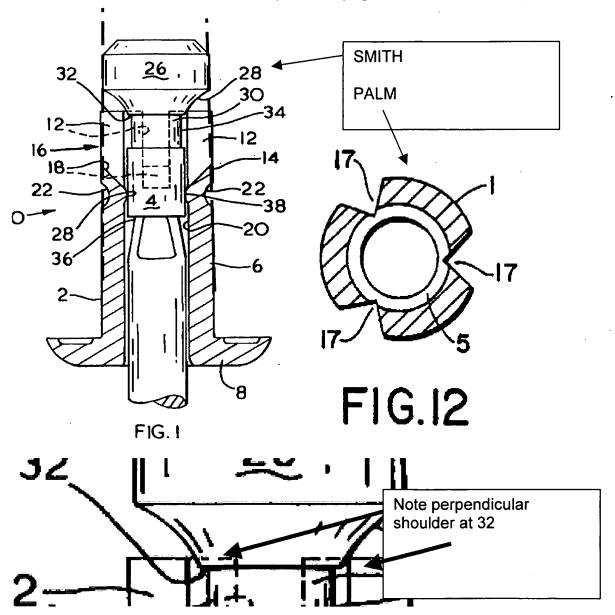
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith GB 2332722.

Smith teaches a peel type blind rivet with an elongate tubular body 2 having a shank 6 and preformed head 8 and expandable portion 16 at end remote from head. The expandable portion comprises a plurality of slots 12. There is a mandrel 4 with head 26/28 and stem. The head has a shoulder portion 32 perpendicular to said mandrel stem (Fig 1 below). The maximum head diameter is greater than the ID of the body (page 5 lines 9-11).

Re 2: The opposed end of the shank 8 presents a flat surface perpendicular to said shank axis in Fig 1.

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Re claims 3 (off 1 and 2) and 6: Looking at the slope of the bottom edge of the groove, identified as 18 in Fig 1, it is clear the slot increases in length as it extends from an outer surface to an inner surface. (see also page 3 lines 7-10 and page 6 lines 1-4)



Re claim 5: Page 3 lines 21-23 teach equally radially spaced slots.

Re claim 7-8: Fig 1 shows constant thickness of walls along axial length, and that the external diameter of the body is constant along its axial length

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Re claim 9: Reduced diameter section 30 is adjacent said shoulder (Fig 1)

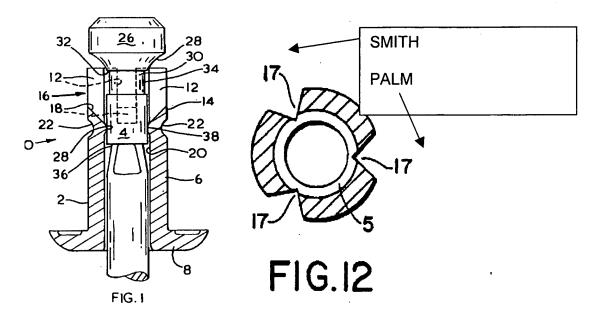
Re claim 10: The (red) dashed lines added by examiner to Fig 1 above show the maximum diameter of the head equal to the OD of the shank.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 4 is rejected under 35 U.S.C. 103(a) as obvious over Smith GB 2332722 in view of Palm, USP 5183357.

As discussed above, Smith teaches a peel type blind rivet with an elongate tubular body 2 having a shank 6 and preformed head 8 and expandable portion 16 at end opposite head. The expandable portion comprises plurality of slots 12. However, Smith is not specific that a pair of side walls defining the at least one slot are curved.

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Palm shows slots 17 extending in a width from an outer surface to an inner surface of said tubular body in Fig 12 and col 5 lines 26-61, and further teaches in Palm col 5 that the sidewalls can be curved:

lines (17) can be selected differently. It is therefore possible to form the notches or grooves in a triangular, 40 polygonal, trapezoidal, or circular cross section.

Trapezoidal-shaped grooves are shown in FIG. 9, trian-

. Therefore, it would have

been obvious to one of ordinary skill in the art, having the teachings of Smith and Palm before him at the time the invention was made, to modify Smith as taught by Palm to include slots of specific geometries, in order to obtain an easier to peel rivet with smooth and more-flush 'collar' formed by the peeled-back sections, and optimum locking, as taught by Palm in col 3 and col 5 lines 35-61.

Response to Arguments

7. Applicant's arguments with respect to claims 1-10 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katherine W. Mitchell whose telephone number is 571-272-7069. The examiner can normally be reached on Mon Thurs 10 AM 8 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on 571-272-7075. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the 11. Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Katherine W Mitchell Primary Examiner

Kwm

10/18/2006

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Mitchel